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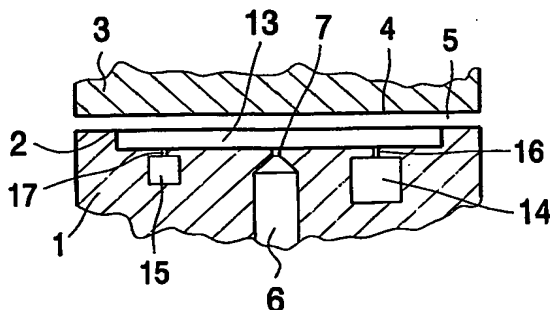
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(54) Title: A GAS BEARING SYSTEM



(57) **Abstract:** A gas bearing system comprising two opposing and substantially parallel bearing surfaces (2,4) and at least one gas duct (6) for supplying gas to the bearing gap (5) between said bearing surfaces (2,4). A cavity (10,14,15,18,19) having a content between 0.001 cm³ and 0.2 cm³ is present, which cavity is connected to said bearing gap (5) through an orifice (7,11,16,17,20,21). The bearing surfaces (2,4) may comprise a recessed area (13) in which the distance between said two bearing surfaces (2,4) is larger than the distance between said two bearing surfaces (2,4) in the portion of said bearing gap (5) surrounding said recessed area (13).

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